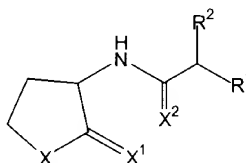


Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

- 1 1. (Currently Amended) A compound having the structure:



(I)

3 wherein,

4 R¹ is a member selected from —H, —OH, and (=O);

5 R² is a member selected from reactive functional groups, alkyl groups

6 terminally substituted with a reactive functional group and internally

7 substituted alkyl groups terminally substituted with a reactive

8 functional group wherein said alkyl groups terminally substituted with

9 a reactive functional group and said internally substituted alkyl groups

10 terminally substituted with a reactive functional group are substituted

11 with a reactive functional group which is a member selected from —

12 OR³, —NHR⁴, —COR⁵, —SH and —CH₂X³ wherein,

13 —OR³ is a member selected from hydroxy, alkyl sulfonate and

14 aryl sulfonate groups;

15 R⁴ is H;

16 R⁵ is a member selected from H, X³ and —OR⁶, wherein

R⁶ is a member selected from alkyl, substituted alkyl,
aryl, substituted aryl, heteroaryl, substituted heteroaryl,
heterocyclyl and substituted heterocyclyl groups; and

X³ is a halogen;

X is ~~a member selected from —O—, —S— and —NH—~~; and

X¹ and X² are members independently selected from O and S.

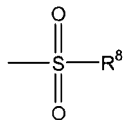
2. (Original) The compound according to claim 1, wherein R² is an
internally substituted alkyl group terminally substituted with a reactive functional group.

3. (Original) The compound according to claim 2, wherein the alkyl
group is internally substituted with a functional group that is a member selected from —OH,
(=O) and combinations thereof.

4. (Canceled)

5. (Original) The compound according to claim 1, wherein the compound
is a single stereoisomer.

6. (Currently Amended) The compound according to claim 4 1, wherein
R³ is



(V)

wherein,

R⁸ is a member selected from alkyl, substituted alkyl, aryl and substituted aryl
groups.

7. (Original) The compound according to claim 1, wherein the alkyl and
the internally substituted alkyl groups are members selected from C₁-C₂₀ saturated straight-
chain, C₁-C₂₀ saturated branched-chain, C₁-C₂₀ unsaturated straight-chain, C₁-C₂₀ unsaturated
branched-chain alkyl and internally substituted alkyl groups.

8. (Original) The compound according to claim 7, wherein the alkyl and internally substituted alkyl groups are members selected from C₅-C₁₀ saturated straight-chain, C₅-C₁₀ saturated branched-chain, C₅-C₁₀ unsaturated straight-chain, C₅-C₁₀ unsaturated branched-chain alkyl and internally substituted alkyl groups.

9. (Original) A compound according to claim 1, wherein R² has the structure:

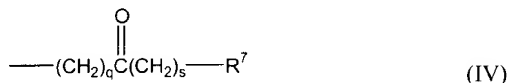


wherein,

R⁷ a reactive functional group; and
n is a number from 1 to 20, inclusive.

10. (Original) The compound according to claim 9, wherein n is a number from 2 to 9, inclusive.

11. (Original) A compound according to claim 1, wherein R² has the structure:



wherein,

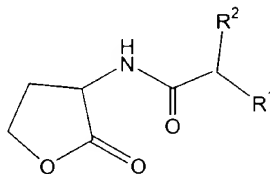
R⁷ is a reactive functional group; and
q and s are numbers independently selected from 1 to 20, inclusive.

12. (Original) The compound according to claim 11, wherein s is a number from 2 to 9, inclusive.

13. (Canceled)

14. (Canceled)

15. (Original) A compound having the structure:



(II)

wherein,

R^1 is a member selected from H, OH, and (=O); and

R^2 is a member selected from H, reactive functional groups, alkyl groups terminally substituted with a reactive functional group and internally substituted alkyl groups terminally substituted with a reactive functional group, with the proviso that when R^2 is —OH, R^1 is a member selected from OH, and (=O).

16. (Original) The compound according to claim 15, wherein the reactive functional group is a member selected from —OR³, —NHR⁴, —COR⁵, SH and CH₂X³

wherein,

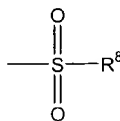
—OR³ is a member selected from hydroxy, and a species such that —OR³ is a leaving group;

R^4 is a member selected from H, C₁-C₆ alkyl, C₁-C₆ substituted alkyl, aryl and substituted aryl groups;

R^5 is a member selected from H, halogen and —OR⁶, wherein R^6 is species such that —OR⁶ is a leaving group; and

X³ is a halogen.

17. (Original) The compound according to claim 16, wherein R^3 is



(V)

wherein,

R^8 is a member selected from alkyl, substituted alkyl, aryl and substituted aryl groups.

18. (Original) The compound according to claim 16, wherein R^6 is a member selected from alkyl, substituted alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocyclyl and substituted heterocyclyl groups.

19. (Original) The compound according to claim 15, wherein the alkyl and the internally substituted alkyl groups are members selected from C_1 - C_{20} saturated straight-chain, C_1 - C_{20} saturated branched-chain, C_1 - C_{20} unsaturated straight-chain, C_1 - C_{20} unsaturated branched-chain alkyl and internally substituted alkyl groups.

20. (Original) The compound according to claim 19, wherein the alkyl and internally substituted alkyl groups are members selected from C_5 - C_{10} saturated straight-chain, C_5 - C_{10} saturated branched-chain, C_5 - C_{10} unsaturated straight-chain, C_5 - C_{10} unsaturated branched-chain alkyl and internally substituted alkyl groups.

21. (Original) A compound according to claim 15, wherein R^2 has the structure:



wherein,

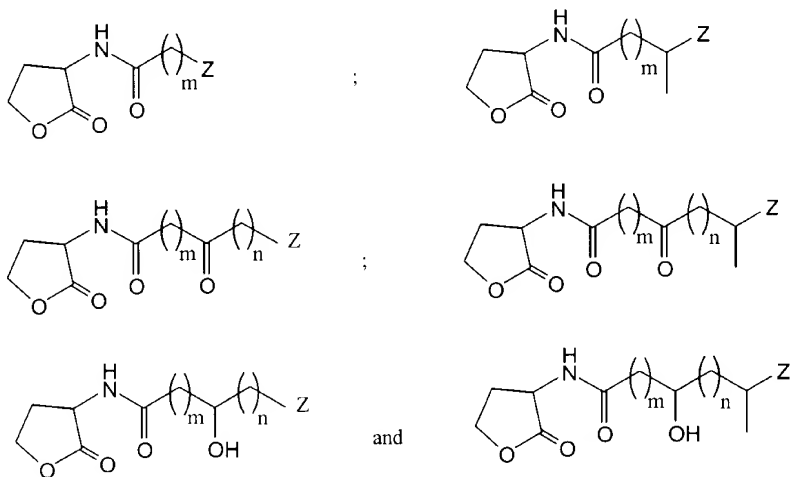
R^7 is a reactive functional group; and
 n is a number from 1 to 20, inclusive.

22. (Original) The compound according to claim 21, wherein n is a number from 2 to 9, inclusive.

23. (Original) The compound according to claim 15, wherein R^2 is a member selected from the group consisting of ---COOH , ---OH , ---NH_2 , and ---SH .

24. The compound according to claim 21, wherein R^7 is a member selected from the group consisting of ---COOH , ---OH , ---NH_2 , and ---SH .

1 **25.** (Original) A compound having a structure that is a member selected
2 from:



wherein,

m is a number selected from 1 to 20, inclusive;

n is a number from 0 to 20, inclusive; and

Z is a reactive functional group.

1 **26.** (Original) The compound according to claim 25, wherein m and n are
2 numbers independently selected from 2 to 9, inclusive.

1 **27.** (Original) The compound according to claim 25, wherein Z is a member
2 selected from —NH₂, —COOH, —SH, and —OH.

1 **28. - 108.** (Canceled)